

Melting and boiling points

This task is about melting and boiling points of substances.

Use this table to answer the questions below.

Substance	Melting Point °C	Boiling Point °C
Aluminium	660	1800
Iron	1535	2750
Nitrogen	- 210	- 196
Oxygen	- 218	- 183
Sodium chloride	804	1413
Water	0	100

a) What is the melting point of iron? °C

b) At what temperature does water turn from a liquid to a gas? °C

c) At 680°C, is sodium chloride a solid, liquid, or gas?

☐ solid

☐ liquid

☐ gas

d) Which substance remains liquid over the greatest temperature range?

☐ Aluminium

☐ Iron

☐ Nitrogen

☐ Oxygen

☐ Sodium chloride

☐ Water

e) Choose the **substances** which are liquid at 1000°C.

☐ Aluminium

☐ Iron

☐ Nitrogen

☐ Oxygen

☐ Sodium chloride

☐ Water

f) If a mixture of oxygen and nitrogen was cooled, which one would freeze first?

☐ Oxygen

☐ Nitrogen

g) At what temperature does aluminium freeze? °C

h) At room temperature:

i) which **substance(s)** would be in a solid state?

☐ Aluminium

☐ Iron

☐ Nitrogen

☐ Oxygen

☐ Sodium
chloride

☐ Water

ii) which **substance(s)** would be in a liquid state?

☐ Aluminium

☐ Iron

☐ Nitrogen

☐ Oxygen

☐ Sodium
chloride

☐ Water

iii) which **substance(s)** would be in a gas state?

☐ Aluminium

☐ Iron

☐ Nitrogen

☐ Oxygen

☐ Sodium
chloride

☐ Water

Published on Assessment Resource Banks (<https://arbs.nzcer.org.nz>)